



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001UA**  
Revision No:  
**2**

This is to certify:

That

**Usha Martin Limited**  
**(Wire and Wire Ropes Division)**  
**TATISILWAI, RANCHI, 835103, JHARKHAND, INDIA**

is an approved manufacturer of  
**Steel Wire Ropes**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0255 Wire ropes**  
**DNV-OS-E304 – Offshore mooring steel wire ropes, Edition July 2023**  
**DNV class programme – DNV-CP-0256 Offshore mooring steel wire ropes and sockets**

and the following particulars:

<b>Application area</b>	<b>Steel wire ropes</b>
<b>Product</b>	<b>Steel wire ropes for ship towlines and mooring lines</b> <b>Steel wire ropes for mobile offshore mooring</b>
<b>Construction</b>	<b>See pages 2 and 3</b>
<b>Max. Diameter</b>	<b>See pages 2 and 3</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.  
Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2024-08-23**

This Certificate is valid until **2027-01-03**.

DNV local unit: **Mumbai NB & CMC**

Approval Engineer: **Dechun Lou**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

Christian Wildhagen

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: AM 311

Revision: 2022-12

www.dnv.com

Page 1 of 3

**Particulars of the approval**

**Steel wire ropes for ship towlines and mooring lines acc. to RU-SHIPs and CP-0255:**

Rope group	Rope construction	Core type	Rope grade [N/mm <sup>2</sup> ]	Max. Diameter [mm]
6x7	6x7	FC	1770, 1960, 2160, IPS, EIP, EEIP	40
6x19	6x19S	FC, WSC, IWRC	1770, 1960, 2160, IPS, EIP, EEIP, TITAN, STITAN, TITANMAX	64
	6xK19S			
	6x25F			
	6xK25F			
	6x19W			
	6x26WS			
	6xK26WS			
6x24	6x24S	FC	1570, 1770, 1960, IPS, EIP	40
	6x24			
6x37	6x37	FC, WSC, IWRC	1570, 1770, 1960	107
8x19	8x19S	FC, IWRC	1570, 1770, 1960, IPS, EIP, EEIP, 2160	101
	8x21F			
	8x26WS			
	8x26KWS			
	8x19W			
8x36	8x41W	FC, WSC, IWRC	1770, 1960, 2160, IPS, EIP, EEIP	127
	8x31WS			
	8x31KWS			
	8x36WS			
	8x36KWS			
	8x41WS			
	8x41KWS			
35(W)x7	35(W)x7	FC, IWRC	1770, 1960, 2160	64
	35(W)xK7			

**Steel wire ropes for mobile offshore mooring as per OS-E304 and CP-0256:**

Rope group	Rope construction	Core type	Rope grade [N/mm <sup>2</sup> ]	Max. Diameter [mm]
6x36	6x31WS	FC, WSC, IWRC	1770, 1960, 2160, IPS, EIP, EEIP, TITAN, STITAN, TITANMAX	115
	6xK31WS			
	6x36WS			
	6xK36WS			
	6x41WS			
	6xK41WS			
	6x47WS			
	6xK47WS			
	6x46WS			
	6xK46WS			
	6x49WS			
	6xK49WS			
	6x52WS			
6xK52WS				
8x36	8x31WS	FC, IWRC	1770, 1960, 2160, IPS, EIP, EEIP	101
	8x36WS			
	8x41WS			
6x61	6x61WS	IWRC	1770, 1960, 2160, IPS, EIP, EEIP, TITAN, STITAN	127
	6x61KWS			
Spiral strand <sup>2)</sup>	1x156	-	1370, 1470, 1570, 1770	86
	1x512	-		86
Full-locked coil <sup>2)</sup>	-	-	1370, 1470, 1570, 1770	130

**Remarks:**

- 1) Rope classification as per ISO 17893 or API 9A.
- 2) Minimum breaking load shall be according to governing rope specification or customer requirement
- 3) Wire rods supplied by Tata Steel Long Products Limited, Phase – V, Adityapur Industrial Area, Gamaharia, Seraikela-Kharsawan, Jharkand 832108, India.